

APPLICATION NO.

10/826,102

United States Patent and Trademark Office

FILING DATE

04/15/2004

04/12/2006

7590

LAHIVE & COCKFIELD

28 STATE STREET

BOSTON, MA 02109

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ATTORNEY DOCKET NO.	CONFIRMATION NO.	
APW-024	9347	
EXAMINER		
HO, HA	DINH	

PAPER NUMBER

3681 DATE MAILED: 04/12/2006

ART UNIT

Please find below and/or attached an Office communication concerning this application or proceeding.

FIRST NAMED INVENTOR

Jiro Takagi

FTO-90C (Rev. 10/03)

	Ameliantian Na	Amaliaamada		
	Application No.	Applicant(s)		
	10/826,102	TAKAGI ET AL.		
Office Action Summary	Examiner	Art Unit		
	Ha D. Ho	3681		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	I. sely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on 15 April 2004.				
2a) ☐ This action is FINAL . 2b) ☑ This	a) ☐ This action is FINAL . 2b) ☑ This action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims				
4)⊠ Claim(s) <u>1-24</u> is/are pending in the application.				
4a) Of the above claim(s) <u>6-8 and 14-116</u> is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>1,2,9,10,17 and 18</u> is/are rejected.				
7)⊠ Claim(s) <u>3-5,11-13 and 19-21</u> is/are objected to.				
8) Claim(s) are subject to restriction and/o	r election requirement.			
Application Papers				
9)☐ The specification is objected to by the Examine	er.			
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119				
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:		-(d) or (f).		
1. Certified copies of the priority documents have been received.				
 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage 				
application from the International Bureau	•	d in this National Stage		
* See the attached detailed Office action for a list		ed.		
Attachment(s)				
1) Notice of References Cited (PTO-892)	4) Interview Summary			
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4/18/04. 	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	atent Application (PTO-152)		

DETAILED ACTION

1. This is the first Office Action on the merits of Application No. 10/826,102 filed on 04/15/04. Claims 1-24 are currently pending.

Election/Restrictions

2. Applicant's election with traverse of Species 1, Figures 1-6, in the reply filed on 02/02/06 is acknowledged. The traversal is on the ground(s) that the various species appear to be so interrelated that would not appear to place a serious burden on the Examiner. This is not found persuasive because this application contains five patentably distinct species that would place a serious burden on the Examiner. Further, should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

The requirement is still deemed proper and is therefore made FINAL.

3. Claims 6-8, 14-16 and 22-24 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 02/02/06.

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1, 2, 9, 10, 17 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Kohno et al. (US 6,138,636).

Kohno et al each a control system/method/program for an internal combustion engine comprising operating parameter detecting means 131-6 including at least one operating parameter NE of the engine, condition determining means for determining a condition for performing the partial-cylinder operation (see Fig. 3, steps S2-S7), modifying means for modifying a result of the determination by the condition determining means (Fig. 3, step S8), and instructing means for instructing the switching means 7 to perform the partial-cylinder operation (Fig. 3, step S9), wherein the operating parameter detecting means detects an operation amount NE, and the condition determining means determines that the condition for performing the partial-cylinder operation is satisfied when the detected operation NE is less than a determination threshold value (i.e., 3500, see col. 8, lines 21-23).

Allowable Subject Matter

6. Claims 3-5, 11-13 and 19-21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Cited Prior Art

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7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Iizuka'470, Endo et al.'502, Miyamoto et al'461, Takagi et al.'470, Takagi et al.'021 and Lewis et al.'598 which each shows a control system for an engine that can be switched between an all-cylinder operation to a partial-cylinder operation.

Communication

8. Submission of your response by facsimile transmission is encouraged. The fax phone numbers for the organization where this application or proceeding is assigned are (571) 273-8300. Recognizing the fact that reducing cycle time in the processing and examination of patent applications will effectively increase a patent's term, it is to your benefit to submit responses by facsimile transmission whenever permissible. Such submission will place the response directly in our examining group's hands and will eliminate Post Office processing and delivery time as well as the PTO's mail room processing and delivery time. For a complete list of correspondence not permitted by facsimile transmission, see M.P.E.P. 502.01. In general, most responses and/or amendments not requiring a fee, as well as those requiring a fee but charging such fee to a deposit account, can be submitted by facsimile transmission. Responses requiring a fee which applicant is paying by check should not be submitting by facsimile transmission separately from the check. Responses submitted by facsimile transmission should include a Certificate of Transmission (M.P.E.P.. 512). The following is an example of the format the certification might take:

I hereby certify that this correspond the Patent and Trademark Office of	ndence is being facsimile transmitted to
	(Date)
Typed or printed name of person	signing this certificate:
	
(Signature)	

If your response is submitted by facsimile transmission, you are hereby reminded that the original should be retained as evidence of authenticity (37 CFR 1.4 and M.P.E.P.. 502.02). Please do not separately mail the original or another copy unless required by the Patent and Trademark Office. Submission of the original response or a follow-up copy of the response after your response has been transmitted by facsimile will only cause further unnecessary delays in the processing of your application; duplicate responses where fees are charged to a deposit account may result in those fees being charged twice.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ha D. Ho whose telephone number is 571-272-7091. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor can be reached on 571-272-7095.

9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HDH (571) 272-7091 April 10, 2006 PRIMARY EXAMINER

Hatho

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4/10/06